

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-12. (Cancelled)

13. (Previously Presented) The polarizer system according to claims 22, wherein the quartz substrate part has a rectangular structure.

14. (Previously Presented) The polarizer system according to claims 22, wherein the quartz substrate part has triangular structure.

15. (Previously Presented) The polarizer system according to claims 22, wherein the quartz substrate part has a parallelogram structure.

16-17. (Cancelled)

18. (Previously Presented) The polarizer system according to claims 22, wherein said means for directing said light collimates said light.

19. (Previously Presented) The polarizer system according to claims 22, wherein said means for directing said light collimates said light and the quartz substrate part partially polarizes said collimated light.

20. (Previously Presented) The polarizer system according to claims 22, wherein each of said plurality of quartz substrate parts is placed at a non-zero angle relative to a normal line of the surface of the polarizer holder.

21. (Previously Presented) The polarizer system according to claims 22, wherein each of said plurality of quartz substrate parts is placed at the Brewster's angle relative to a normal line of the surface of the polarizer holder

22. (Currently Amended) A polarizer system for treating an alignment layer on a substrate of a liquid crystal display device, comprising:

a light source for generating a light;

a plurality of quartz substrate parts, each quartz substrate part comprises one quartz substrate or a plurality of quartz substrates stacked on top of one another;

a polarizer holder having a lattice like structure and directly supporting each quartz substrate part, wherein the polarizer holder includes a material having an optical absorptivity of almost 100%, and wherein the polarizer holder absorbs light reflected by the plurality of quartz substrate parts, wherein the polarizer holder;

a first moving control part moving the plurality of quartz substrate parts in the X axis direction;

a second moving control part moving the plurality of quartz substrate parts in the Y axis direction; and

means for directing said light onto said plurality of quartz substrate parts,

wherein an end portion of a first quartz substrate part is supported on a bottom surface of a first segment of the polarizer holder and an opposite end portion of the first quartz substrate part is supported on a top surface of a second segment of the polarizer holder, and an end portion of a second quartz substrate part is supported on the top surface of the second segment of the polarizer holder and an opposite end portion of the second quartz substrate part is supported on a bottom surface of a third segment of the polarizer holder.

23. (Previously Presented) The polarizer system according to claim 22, wherein each quartz substrate part includes means for partially polarizing said light, and wherein the degree of partially polarization depends on the number of said quartz substrates.

24-26. (Cancelled)

27. (Withdrawn) A polarizer system, comprising:

a light source for generating a light; a lens for collimating said light;

one or more sets of plurality of quartz substrate parts, each quartz substrate part having one or more quartz substrates; and

one or more polarizer holders supporting respective one or more sets of plurality of quartz substrate parts, wherein zero or more of said one or more polarizer holders are placed between the light source and the lens, and wherein zero or more of said one or more polarizer holders are placed after the lens.

28. (Withdrawn) A polarizer system, comprising:

a light source for generating a light;

a lens;

at least a first polarizer including a quartz substrate adjacent the lens; and

a support member supporting an alignment layer, the polarizer being positioned between the light source and the support member.

29. (Withdrawn) The polarizer system according to claim 28, wherein the lens includes a collimating lens and the collimating lens being positioned between the first polarizer and the light source.

30. (Withdrawn) The polarizer system according to claim 29, further comprising a second polarizer and a second lens, the second polarizer and the second lens being positioned between the light source and the first polarizer.

31. (Withdrawn) A method of forming a liquid crystal display device having first and second substrates comprising:

forming a photo-alignment layer on the first substrate;

irradiating the photo-alignment layer with a ultraviolet light through a polarizer system including a quartz substrate unit; and

firming a liquid crystal layer between the first and second substrates.

32. (Withdrawn) The method according to claim 31, wherein the quartz substrate unit includes a plurality of substrates.

33. (Withdrawn) The method according to claim 32, wherein the plurality of quartz substrates has a size corresponding to a liquid crystal display panel.

34. (Withdrawn) The method according to claim 31, wherein the step of irradiating the photo-alignment layer includes directing the collimated light to the photo-alignment layer through a polarizer.

35. (Withdrawn) A method of forming a liquid crystal display device having first and second substrates comprising:

forming a photo-alignment layer on the first substrate;

irradiating the photo-alignment layer with ultraviolet light through a polarizer system including a first polarizer and a first lens unit; and

forming a liquid crystal layer between the first and second substrates.

36. (Withdrawn) The method according to claim 35, wherein the polarizer system further includes:

an ultraviolet light source;

a second lens unit receiving light from the first polarizer and first lens unit; and

a second polarizer receiving light from the second lens unit.

37. (Withdrawn) The method according to claim 35, wherein the first polarizer partially polarizes the ultraviolet light.

38. (Previously Presented) A polarizer system for treating an alignment layer on a substrate of a liquid crystal display device, comprising:

a light source for generating a light;

a plurality of quartz substrate parts, each quartz substrate part comprises one quartz substrate or a plurality of quartz substrates stacked on top of one another;

a polarizer holder having a lattice like structure and directly supporting each quartz substrate part, wherein the polarizer holder includes a material having an optical absorptivity of

almost 100%, wherein the polarizer holder absorbs light reflected by the plurality of quartz substrate parts, and wherein each quartz substrate part is slantly supported by the polarizer holder;

a first moving control part moving the plurality of quartz substrate parts in the X axis direction;

a second moving control part moving the plurality of quartz substrate parts in the Y axis direction; and

means for directing said light onto said plurality of quartz substrate parts.